

Claims

[c1] We claim:

1.A tip cap for a turbine blade, comprising:
a HS-188 sheet material;
said sheet material comprising a thickness of less than
about 0.079 inches (about 2 millimeters); and
a plurality of holes positioned in said sheet material.

[c2] 2.The tip cap of claim 1, wherein said plurality of holes
comprises six (6) holes.

[c3] 3.The tip cap of claim 1, wherein each of said plurality of
holes comprises a diameter of about 0.04 inches (about
1.06 millimeters).

[c4] 4.The tip cap of claim 1, wherein said sheet material
comprises a thickness of about 0.062 inches (about 1.57
millimeters).

[c5] 5.The tip cap of claim 1, wherein said plurality of holes
comprises a position on said sheet material according to
the coordinates set forth in Table I.

[c6] 6.The tip cap of claim 1, further comprising a weld cre-
ated by electron beam welding so as to attach the tip cap

to the turbine blade.

- [c7] 7.A tip cap for a turbine blade, comprising:
a sheet material; and
a plurality of holes positioned within said sheet material;
said plurality of holes comprises a position on said sheet material according to the coordinates set forth in Table I.
- [c8] 8.The tip cap of claim 7, wherein said plurality of holes comprises six (6) holes.
- [c9] 9.The tip cap of claim 7, wherein said sheet material comprises a thickness of less than about 0.079 inches (about 2 millimeters).
- [c10] 10.The tip cap of claim 7, wherein said sheet material comprises a thickness of about 0.062 inches (about 1.57 millimeters).
- [c11] 11.The tip cap of claim 7, wherein said sheet material comprises a HS-188 sheet material.
- [c12] 12.The tip cap of claim 7, wherein each of said plurality of holes comprises a diameter of about 0.04 inches (about 1.06 millimeters).
- [c13] 13.A turbine blade, comprising:
an airfoil; and
a tip cap position about a first end of said airfoil;

said tip cap comprising a sheet material;
said sheet material comprising a thickness of less than
about 0.079 inches (about 2 millimeters); and
a plurality of holes positioned within said sheet material;
said plurality of holes comprising six (6) holes.

[c14] 14.The turbine blade of claim 13, wherein each of said plurality of holes comprises a diameter of about 0.04 inches (about 1.06 millimeters).

[c15] 15.The turbine blade of claim 13, wherein said sheet material comprises a thickness of about 0.062 inches (about 1.57 millimeters).

[c16] 16.The turbine blade of claim 13, wherein said plurality of holes comprises a position on said sheet material according to the coordinates set forth in Table I.

[c17] 17.The turbine blade of claim 13, further comprising a weld created by electron beam welding so as to attach said tip cap to said first end of said air foil.